SEQ ID NO:	Sequence			
I	Rana pipiens liver ribonuclease cDNA (RaPLR1)			
2	Rana pipiens liver ribonuclease amino acid (RaPLR1)			
3	Rana pipiens ribonuclease cDNA with Met23Leu			
	(recombinant RaPLR1 Met 23Leu)			
4	Rana pipiens ribonuclease amino acid with Met23Leu			
	(recombinant RaPLR1 Met 23Leu)			
5	Rana pipiens ribonuclease cDNA with Met at position 1			
	(recombinant Met(-1) RaPLR1)			
6	Rana pipiens ribonuclease amino acid with Met at position 1			
	(recombinant Met(-1) RaPLR1)			
7	Rana pipiens ribonuclease cDNA with Met at position 1 and Met24Leu			
	(recombinant Met(-1) RaPLR1 Met23Leu)			
8	Rana pipiens ribonuclease amino acid with Met at position 1 and Met24Leu			
	(recombinant Met(-1) RaPLR1 Met23Leu)			
9	Rana pipiens ribonuclease amino acid with (His)6, Met at position 7 and			
	Met30Leu (recombinant Met(-1) RaPLR1 Met23Leu-(His) ₆)			
10	Rana pipiens ribonuclease cDNA with Gln1Ser (recombinant RaPLR1 Q1S)			
11	Rana pipiens ribonuclease amino acid with Glnl Ser (recombinant RaPLR1 Q1S)			
12	Rana pipiens ribonuclease cDNA with Met at position 1 and Gln2Ser			
	(recombinant Met(-1) RaPLR1 Q1S)			
13	Rana pipiens ribonuclease amino acid with Met at position 1 and Gln2Ser			
	(recombinant Met(-1) RaPLR1 Q1S)			
14	Rana catesbeiana oocyte ribonuclease synthetic gene cDNA (RaCOR1)			
15	Rana catesbeiana oocyte ribonuclease synthetic gene amino acid (RaCOR1)			
16	Rana catesbeiana ribonuclease cDNA with Met at position 1			
	(recombinant Met(-1) RaCOR1)			
17	Rana catesbeiana ribonuclease amino acid with Met at position 1			
	(recombinant Met(-1) RaCOR1)			
18	Rana catesbeiana ribonuclease cDNA with Met22Leu and Met57Leu			
10	(recombinant RaCOR1 Met22Leu Met57Leu)			
19	Rana catesbeiana ribonuclease amino acid with Met22Leu and Met57Leu			
20	(recombinant RaCOR1 Met22Leu Met57Leu)			
20	Rana catesbeiana ribonuclease cDNA with Met at position 1, Met23Leu and			
21	Met58Leu (recombinant Met(-1) RaCOR1 Met22Leu Met57Leu)			
21	Rana catesbeiana ribonuclease amino acid with Met at position 1, Met23Leu and			
22	Met58Leu (recombinant Met(-1) RaCOR1 Met22Leu Met57Leu)			
22	Rana catesbeiana ribonuclease amino acid with (His) ₆ , Met at position 7,			
	Met23Leu and Met58Leu			
22	(recombinant Met(-1) RaCOR1 Met22Leu Met57Leu-(His) ₆)			
23 24	Rana catesbeiana ribonuclease cDNA with Gln1Ser (recombinant RaCOR1 Q1S)			
∠ '+	Rana catesbeiana ribonuclease amino acid with Gln1Ser			
25	(recombinant RaCOR1 Q1S)			
43	Rana catesbeiana ribonuclease cDNA with Met at position 1 and Gln2Ser			
	(recombinant Met(-1) RaCOR1 Q1S)			

26	Rana catesbeiana ribonuclease amino acid with Met at position 1 and Gln2Ser				
	(recombinant Met(-1) RaCOR1 Q1S)				
27	Rana pipiens ribonuclease Clone 5alb cDNA insert				
28	Rana pipiens ribonuclease Clone 5alb amino acid with signal peptide				
29	CAAX motif to target heterologous proteins to the plasma membrane				
30	Rana pipiens forward degenerate primer				
31	Rana pipiens reverse degenerate primer				
32	Rana catesbeiana ribonuclease synthetic gene (RaCOR1) oligonucleotide				
33	Rana catesbeiana ribonuclease synthetic gene (RaCOR1) oligonucleotide				
34	Rana catesbeiana ribonuclease synthetic gene (RaCOR1) oligonucleotide				
35	Rana catesbeiana ribonuclease synthetic gene (RaCOR1) oligonucleotide				
36	Rana catesbeiana ribonuclease synthetic gene (RaCOR1) oligonucleotide				
37	Rana catesbeiana ribonuclease synthetic gene (RaCOR1) oligonucleotide				
38	Rana catesbeiana ribonuclease synthetic gene (RaCOR1) oligonucleotide				
39	Rana catesbeiana ribonuclease synthetic gene (RaCOR1) oligonucleotide				
4 0	Rana catesbeiana ribonuclease synthetic gene (RaCOR1) oligonucleotide				
41	Rana catesbeiana ribonuclease synthetic gene (RaCOR1) oligonucleotide				
42	Rana catesbeiana insertion primer for NdeI restriction site				
43	six histidine residue tag at amino terminus				

DNA sequence 312 b.p.

linear

RaPLRI

DNA sequence 315 b.p.

linear

cah gac tgg ctt acg ctt cag aag aag cac ctg aca aac acc cgg gat gtt gac tgc gln asp trp leu chr phe gln lys lys his leu thr asn thr arg asp val asp cys

aat aat acc ccg tca aca aac ttg ttc cac tgc aag gat aag aac act ttt atc tac tca asn asn ile leu ser thr asn leu phe his cys lys asp lys asn thr phe ile cyr ser

cgt cct gag cca gtg aag gcc acc tgt aaa gga atc ata gcc ccc aaa aat gtg tca acc arg pro glu pro val lys ala ile cys lys gly ile ile ala ser lys asn val leu thr

acc ttt gag tct tat ccc tct gat tgc aat gta aca agc agg cct tgc aag tat aaa tca thr ser glu phe tyr leu ser asp cys asn val thr ser arg pro cys lys tyr lys leu

aag aaa tsa act aat aca ttt tgt gta act tgt gag aat caa gct cca gta cat tcc gtg lys lys ser thr asn thr phe cys val thr cys glu asn gln ala pro val his phe val

ggt gcc gga cat tgc
gly val gly his cys

recombinant RaPLR1 Met23Leu

SEQ ID NO:5/6

DNA sequence 315 b.p.

linear

acg caa gac tgg ctt acg tct cag aag aag cac ctg aca aac acc cgg gac gtt gac cgt met gln asp trp leu thr phe gln lys lys his leu thr asn thr arg asp val asp cys

aac acc acg acg aca aca acc tcg tcc cac tgc aag gac aag acc act tcc acc tca

cgc cct gag cca gtg aag gcc acc tgc aaa gga act aca gcc tcc aaa act gtg tca acc

acg cct gag cca gtg aag gcc acc tgc aaa gga act aca gcc tcc aaa act gtg tca acc

acg cct gag cca gtg aag gcc acc tgc aaa gga act aca gcc tcc aaa aca gtg tca acc

acg cct gag cca gtg aag gcc acc tgc aaa gga act aca gcc tcc aaa aca gtg tca acc

acg cct gag ct tcat ctc tct gat tgc aac gta aca agc agg cct tgc aag tat acc

thr ser glu phe tyr leu ser asp cys asn val thr ser arg pro cys lys tyr lys lau

aag aaa tca acc acc aca aca ctt tgc gca act tgc gag aac caa gcc cca gta cat tcc gtg

lys lys ser thr asn thr phe cys val thr cys glu asn gln ala pro val his phe val

ggt gtc gga cat tgc

gly val gly his cys

recombinant Met(-1) RaPLR1

DNA sequence 315 b.p.

linear

atg caa gac tgg ctt acg ttt cag aag aag cac ctg aca aac acc cgg gat gtt gac tgt met gln asp trp leu thr phe gln lys lys his leu thr asn thr arg asp val asp cys

aat aat att ctg tca aca aac ttg ttc cac tgc aag gac aag aac act ttt atc tat tca asn ile leu ser thr asn leu phe his cys lys asp lys asn thr phe ile tyr ser

cgt cct gag cca gtg aag gcc atc tgt aaa gga att ata gcc tcc aaa aat gtg tta act arg pro glu pro val lys ala ile cys lys gly ile ile ala ser lys asn val leu thr

acc ttt gag ttt tat ctc tct gat tgc aat gta aca agc agg cct tgc aag tat ata ser lys asn val leu thr

acc ttt gag ttt tat ctc tct gat tgc aat gta aca agc agg cct tgc aag tat aaa tta thr ser glu phe tyr leu ser asp cys asn val thr ser arg pro cys lys tyr lys leu

aag aaa tea act aat aca ttt tgt gta act tgt gag aat caa gct cca gta cat ttc gtg gg gtc gg gac cat tgc gly val gly his cys

recombinant Met(-1) RaPLR1 Met23Leu

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SEQ ID NO:7/9

DNA sequence 315 b.p.

linear

acc ccc gag ccc cac ccc ccc gat cgc aaa gga acc acc aaa acc ccg gat gcc gac cgc cac as as acc ccg gat gcc gac cgc (His)₆- mec gln asp crp leu chr phe gln lys lys his leu chr asn chr arg asp val asp cys

aac aat acc ccg cca aca aca tcg tcc cac tgc aag gac aag aac acc cct acc cac cca asn asn ile leu ser chr asn leu phe his cys lys asp lys asn chr phe ile cyr ser

cgc ccc gag cca gcg aag gcc acc tgc aaa gga acc aca gcc ccc aaa act gcg cca acc acc acc acc acc arg pro glu pro val lys ala ile cys lys gly lle ile ala ser lys asn val leu chr

acc ccc gag ccc cac ccc gat cgc aac gca acc aca agc agg ccc tgc aaa cta chr ser glu phe cyr leu ser asp cys asn val thr ser arg pro cys lys cyr lys leu

aag aaa cca acc acc acc ccc cgt gca acc tgc gag acc cca gca cac ccc gcg gly val gly val gly his cys

recombinant Met(-1) RaPLR1 Met23Leu-(His)6

DNA sequence 315 b.p. linear

tca gac tgg ctt acg ttt cag aag cac ctg aca aac acc cgg gat gtt gac tgt ser asp trp leu thr phe gln lys lys his leu thr asn thr arg asp val asp cys aac aat atc atg toa aca aac ttg ttc cac tgc aag gac aag aac act ttt atc tat toa asn asn ile met ser thr asn leu phe his cys lys asp lys asn thr phe ile tyr ser cgt cct gag cca gtg aag gcc atc tgt aaa gga att ata gcc tcc aaa aat gtg tta act arg pro glu pro val lys ala ile cys lys gly ile ile ala ser lys asn val leu thr acc tot gag tit tat oto tot gat tgo aat gia aca ago agg cot tgo aag tat aaa tta thr ser glu phe tyr leu ser asp cys asn val thr ser arg pro cys lys tyr lys leu aag aaa toa act aat aca tit igi gia act igi gag aat caa got ooa gia cai iic gig lys lys ser thr asn thr phe cys val thr cys glu asn gln ala pro val his phe val ggt gtc gga cat tgc gly val gly his cys

recombinant RaPLR1 Q1S

SEQ ID NO:12/13

DNA sequence 315 b.p.

linear

atg tca gac tgg ctt acg ttt cag aag aag cac ctg aca aac acc cgg gat gtt gac tgt met ser asp trp leu thr phe gln lys lys his leu thr asn thr arg asp val asp cys

aac aat acc atg tca aca aac ttg ttc cac tgc aag gac aag aac act ttt atc tat tca
asn asn ile met ser thr asn leu phe his cys lys asp lys asn thr phe ile tyr ser

cgt cct gag cca gtg aag gcc atc tgt aaa gga att ata gcc tcc aaa aat gtg tta act
arg pro glu pro val lys ala ile cys lys gly ile ile ala ser lys asn val leu thr

acc tct gag ttt tat ctc tct gat tgc aat gta aca agc agg cct tgc aag tat aaa tca
thr ser glu phe tyr leu ser asp cys asn val thr ser arg pro cys lys tyr lys leu

aag aaa tca act aat aca ttt tgt gta act tgt gag aat caa gct cca gta cat ttc gtg
lys lys ser thr asn thr phe cys val thr cys glu asn gln ala pro val his phe val

ggt gtc gga cat tgc
gly val gly his cys

recombinant Met(-1) RaPLR1 Q1S

SEQ ID NO:14/15

DNA sequence 330 b.p.

linear

CAG AAC TOG GCT ACT TTC CAG CAG AAA CAT ATC ATC AAC ACT CCG ATC ATC TGC AAC ACT gin asn trp ala thr plie gin gin lys his lie ile asn thr pro lie ile cys asn thr

ATC ATG GAC AAC AAC ATC TAC ATC GTT GGT GGT CAG TGC AAA CGT GTT AAC ACT TTC ATC ile mec asp asn asn ile tyr ile val gly gly gin cys lys arg val asn thr phe ile

ATC TCT TCT GCT ACT ACT GTT AAA GCT ATC TCC ACT GGT GTT ATC AAC ATG AAC GTT CTC ile ser ser ala thr thr val lys ala ile cys thr gly val ile asn met asn val leu

TCT ACT ACT CGT TTC CAG CTG AAC ACT TGC ACT CGT ACT TCT ATC ACT CGG CGT CGG TGC ser thr thr arg phe gln leu asn thr cys thr arg thr ser lle thr pro arg pro cys

CCG TAG TCT TCT CCT ACT GAA ACT AAC TAC ATC TGC GTT AAA TGC GAA AAC CAG TAC CCG pro cyr ser ser arg thr glu thr asn cyr ile cys val lys cys glu asn gln cyr pro

GTT CAT TTC GCT GGT ATC QGT CGT TGC CCG val his phe ala gly ile gly arg cys pro

Rana catesbeiana synthetic gene & translated amino acid sequence

SEQ ID NO:16/17

DNA sequence 333 b.p.

linear

ATG CAG AAC TGG GCT ACT TTC CAG CAG AAA CAT ATC ATC AAC ACT CCG ATC ATC TGC AAC met gln asn trp ala thr phe gln gln lys his ile ile asn thr pro ile ile cys asn ACT ATC ATG GAC AAC AAC ATC TAC ATC GTT GGT GGT CAG TGC AAA CGT GTT AAC ACT TTC thr ile met asp asn asn ile tyr ile val gly gly gln cys lys arg val asn thr phe ATC ATC TCT TCT GCT ACT ACT GTT AAA GCT ATC TGC ACT GGT GTT ATC AAC ATG AAC GTT ile ile ser ser ala thr thr val lys ala ile cys thr gly val ile asn met asn val CTG TCT ACT ACT CGT TTC CAG CTG AAC ACT TGC ACT CGT ACT TCT ATC ACT CGG GGT CGG leu ser thr thr arg phe gln leu asn thr cys thr arg thr ser ile thr pro arg pro TGC CGG TAC TCT TCT CGT ACT GAA ACT GAA ACT AAC TAC ATC GGT AAA TGC GAA AAC CAG TAC cys pro tyr ser ser arg thr glu thr asn tyr ile cys val lys cys glu asn gln tyr CGG GTT CAT TTC GCT GCT ATC GGT CGC GCG pro val his phe ala gly ile gly arg cys pro

[Met-(-1)] Rana catesbeiana gene & translation of expressed protein

SEQ ID NO:18/19

DNA sequence 333 b.p.

linear

CAG AAC TOG OCT ACT TTC CAG CAG AAA CAT ATC ATC AAC ACT CCG ATC ATC TCC AAC gln asn trp ala thr phe gln gln lys his ile ile asn thr pro ile ile cys asn ACT ATC CTG GAC AAC AAC ATC TAC ATC GTT CGT CGT CAG TCC AAA CGT GTT AAC ACT TTC thr ile leu asp asn asn ile tyr ile val gly gly gln cys lys arg val asn thr phe ATC ATC TCT TCT GCT ACT ACT GTT AAA GCT ATC TCC ACT GTT ATC AAC CTG AAC GTT ile ile ser ser ala thr thr val lys ala ile cys thr gly val ile asn leu asn val CTG TCT ACT ACT CGT TTC CAG CTG AAC ACT TCC ACT CGT ACT TCT ATC ACT CCG CGT CCG leu ser thr thr arg phe gln leu asn thr cys thr arg thr ser ile thr pro arg pro TCC CCG TAC TCT TCT CGT ACT ACT TCT TCT CGT ACT CGT TCC CCG GTT CAT TCC CGT GAA AAC CAG TAC CYS pro tyr ser ser arg thr glu thr asn tyr ile cys val lys cys glu asn gln tyr CCG GTT CAT TTC CGT ACT ACT CGT CGT CCC CCC pro val his phe ala gly ile gly arg cys pro

Rana catesbeiana gene with two mutations to regenerate pyroglutamic acid N-cerminal

Met 22 Leu

Met 57 Leu

SEQ ID NO:20/21

DNA sequence 333 b.p.

linear

[Met-(-1)] Rana catesbeiana gene with two mutations to regenerate pyroglutamic acid N-terminal

Met 22 Leu Met 57 Leu SEQ ID NO:20/22

DNA sequence 333 b.p.

linear

ATC CAG AAC TOG OCT ACT TTC CAG CAG AAA CAT ATC ATC AAC ACT CCG ATC ATC TOC AAC $(His)_6$ - met gln asn trp ala thr phe gln gln lys his ile ile asn thr pro ile ile cys asn

ACT ATC CTG GAC AAC AAC ATC TAC ATC GTT CGT CGT CAG TCC AAA CGT GTT AAC ACT TTC thr lie leu asp asn asn ile tyr ile val gly gly gln cys lys arg val asn thr phe

ATC ATC TCT TCT GCT ACT ACT GTT AAA GCT ATC TGC ACT GGT GTT ATC AAC CTG AAC GTT lle ile ser ser ala thr thr vai lys ala ile cys thr gly val ile asn leu asn val

CTG TCT ACT ACT CTT TTC CAG CTG AAC ACT TCG ACT CGT ACT TCT ATC ACT CCG CGT CCG leu ser thr thr arg phe gln leu asm thr cys thr arg thr ser ile thr pro arg pro

TOC COE TAC TOT TOT COT ACT GAA ACT AAC TAC ATC TOC CTT AAA TOC GAA AAC CAG TAC Cys pro tyr ser ser arg thr glu thr asn tyr lle cys val lys cys glu asn gln tyr

CCG CTT CAT TTC CCT CCT ATC CCT CCT TCC CCC pro val his phe ala gly ile gly arg cys pro

[Met-(-1)] Rana catesbeiana gene with two mutations to regenerate pyroglutamic acid N*terminal

Met 22 Leu Met 57 Leu (His)₆ SEQ ID NO:23/24

DNA sequence 333 b.p.

linear

QlS Rana catesbeiana gene (serine in 1 position)

SEQ ID NO:25/26

DNA sequence 333 b.p.

linear

ATC TCA AAC TGG GCT ACT TTC CAG CAG AAA CAT ATC ATC AAC ACT CCG ATC ATC TGC AAC met ser asn trp ala thr phe gln gln lys his ile ile asn thr pro ile ile cys asn

ACT ATC ATG GAC AAC AAC ATC TAC ATC GIT GGT GGT CAG TGC AAA CGT GIT AAC ACT TTC thr ile met asp asn asn ile tyr ile val gly gly gln cys lys arg val asn thr phe

ATC ATC TCT TCT QCT ACT ACT GTT AAA GCT ATC TGC ACT GGT GTT ATC AAC ATG AAC GTT lie ile ser ser ala thr thr val lys ala ile cys thr gly val ile asn met asn val

CTG TCT ACT ACT CTT TTC CAG CTG AAC ACT TCC ACT CTT ACT ACT ACT CCG CGT CCC leu ser thr thr arg phe gln leu asn thr cys thr arg thr ser ile thr pro arg pro

TGC CCG TAC TCT TCT CGT ACT GAA ACT AAC TAC ATC TGC GTT AAA TGC GAA AAC CAG TAC cys pro tyr ser ser arg thr glu thr asn tyr ile cys vai lys cys glu asn gln tyr

CCG GTT CAT TTC GCT GGT ATC GGT CGT TGC CCG pro val his phe ala gly lle gly arg cys pro

[Met-(-1)] QIS Rana catesbeiana gene
(serine in l position)

SEQ ID NO: 27/28

atcagttgct catcgtttga ccaagttgtt ttccatctga agcaatattt atatataatt totottatat ataaaggoot gatcacgact tocagaatgt 101 ttccaaaatt ctcatttctc ctgatatttg cagttgtttt gagtctcact PKF SFL LIFA V V L cataagteet tatgteaaga etggettaeg ttteagaaga ageaeetgae 151 K S L C Q D W L T FQKKHLT 201 aaacacccgg gatgttgact gtaataatat catgtcaaca aacttgttcc DVDC NNI MST NTR NLFH 251 actgcaagga caagaacact tttatctatt cacgtcctga gccagtgaag K N T FIYS R P E 301 qccatctqta aaggaattat agcctccaaa aatgtgttaa ctacctctga GII A S K NVLT 351 qttttatctc tctqattqca atqtaacaaq caggccttqc aagtataaat V T S R P C K Y K SDCN 401 taaagaaatc aactaataca ttttgtgtaa cttgtgagaa tcaagctcca FCVT CEN TNT Q 451 gtacatttcg tgggtgtcgg acattgctag aaatatgttt gacaacaggg G V G H C atgtgataag cagctgcaag aaattatttt gaagtgaatt tactaaagac 501 551 actaattttg cataaatttt ccccagagct taccggtagt aagaaaattc 601 caacagggag ccaagcacag aaagtaaact aaggagccaa agtaattata 651 aaagtcacac tggaccgctg ctactgcact cagatgacca aatgagaaac 701 agacaaaaac agcagagttg ggaagcgcag atccgggagg tggcggggag tcaattgggg atggagtcca tgtgagattt ggaaccgttt gttgctggtg 751 801 aagcatgtgg ccggtgcaca gtacacatgg ggaaagatag tcggattggc 851 cgggctcgct gtggtggtgc cggcggttga gccaaaggtg gtggggagat 901 ggctgtcccc ccttctgtgg gggctgtgga cagagggagc tgcggaccag 951 gggtgggagg cctggagaga attttcaaac agctgacgtg gccggggctg 1001 ggcagcatcg gggaggggaa gggctgggct cagatccagg aagcatggtc 1051 actgtatgac cagagtggaa gatggcagag ccgctgcagt ggccggggag 1101 accagaggga tetgtgeeca geettteece teeetgatgt ggeeegtttt 1151 tggttatggt aaccgctccc agctgtttgg gggtgttttc gggcttcgca 1201 tttttggtct gcggctccct ctgtccacgg ccctcatgga gggggggtgg 1251 gcatttctcc accgcctttg gctctgttgc tggcactgtc gcagcgagtt 1301 tggccagtca tggctcattt tcccatttgt catgtgtgtt ggttgcatgt 1351 tttgtcggcg gtggactgtt ttgaatttca catggattcc atcttcggtt 1401 ggttccttgc cacctcctgg atctgtgctt tccaattctg ttttttcccc 1451 agcgcttagt ggatgcagtg aaactctggt gattaccatc atccaatcat 1501 gtgcaagaaa aaatattttc atatttcttc cacccaattg ggtattcatt 1551 aggaagtttg agcacattca cgttctaggg aaaatgagtg caactgcact 1601 tccaaagttc acagtctatt tgcctttagt aaatccaccc cattatttct 1651 gagcagagga caaatctatg gcaacaaaaa aactttacct actgaattat 1701 tttatattga ttgaagataa tctttctttc atttcctaaa tattgtaatc 1751 aaaattaata cataacagct atgtattata ccacagcagc aaatgttaaa 1801 atagttttaa acgtaaaata tgttttacct taaagtggaa gtaaacttct 1851 atcactaaat tttacctata ggtgagaccc atgcgctctt caggaatggc 1901 cgctggtgct gttccttcag agccctgtgc tgcgaacggc ggctcccgtg 1951 tgcatgtaca ggagtgacgt catcacagct ccggccagtc acagagttag 2001 agttcaagtg tgagtggctt gagccacgat gatgtcgctc ccaaacatgt 2051 gtgcgggggt ctccgtttgc ggcgcaggac actgggggaa tagcatgggt 2101 gtgccgttcc ttcagagcat atgcgtgggt gacgtcacta gctgcatcta

2151 2201 2251 2301 2351 2401 2451 2501 2551	tgggtaagcc gtttacttcc gcagtagcaa aatcttacct gtcttaaaaa gctcccccac gctcgaccgt cagatgtccg	ttattgtagg actttaacac atgtagggat atagtggttg ggctaggata acatgagtag taaatagcgt cgtatgcacg	cttacctata cggcatagct gaggagagca aaagtagttg gcacagtatc caaggagcaa tggccctcca cagacatatg	ggagatagtt ggtaaaaatc gcgtgtttat ggctgacata aaaataagat cacatgaggc tggtaatgtg agtgatacat tgggcggatg aggagaaagg	acagtaccta atgcatgga aaaccaacca ttaaagtaaa ggcctgcagg accagatctc agtttcttag gggagataag ttgggatagg tggaaacatc
2451	gctccccac	acatgagtag	caaggagcaa	tggtaatgtg	-
	gctcgaccgt	taaatagcgt	tggccctcca	agtgatacat	gggagataag
2551 2601	acgatcagag	agatgctcag	atctgcccga	aggagaaagg	tggaaacatc
2651 2701				ccaccataaa ccaaaggagg	aagttaatag gtggccccag
2751 2801	tggaccgtat agagacccat	aggaacagca tgtgggtatt	ctcagctatc aacaaccaaa	acataattac tggctaaaaa	acaagagtat aaaaaaaaaa
2851	aaaaa				